"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

HUNGARY / Farm animals. General Problems. Q-1

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 45147

Author : L. Kurelec, Viktor
Inst : Not given
Title : The Determination of the Content of Digestible Proteins in the Native Hay.

Orig Pub : Allattenyesztes, 1956, 5, No. 4, 341-349

Abstract : No abstract

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KUBLICH, V.

KUBLICH, V. The nutritive value of ensiled broomcorn. p. 71. All-union conference on sheep breeding. p. 72.

Vol. 8, no. 2, Feb. 1956.
AGRARTUDOMANY.
AGRICULTURE
Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELEC, V.

How should we use carbamide in forage? p. 23. (Magyar Mezogazdasag, Vol. 11, no. 6, Mar. 1956 Budapest)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELECZ, V.

KURELECZ, V. Sowing maize seeds in sections. p. 16

Vol. 11, No. 10, May 1956
MAGYAR MEZAGAZDASAG
AGRICULTURE
Budapest, Hungary

SO: EAST EUROPEAN ACCESSIONS, VOL. 6, no. 3, March 1957

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

[illegible]

[illegible] Vol. [illegible], No. 11, Jun 1956

[illegible]

[illegible] Vol. [illegible], No. 5, May 1957

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

HUNGARY/Farm Animals. Swine.

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101176

Author : Kurelec, Viktor

Inst : -

Title : Weight Gains of Immature Sows Being Influenced by Alfalfa Silage and Alfalfa Hay Flour.

Orig Pub: Allattenyesztes, 1957, 6, No. 1, 53-59

Abstract: For a period of 119 days, comparative experimental fattenings were carried out on 108 immature sows the initial weight of which was about 51 kg. The first group received 0.5 kg of alfalfa silage (AS) daily, and the second group 0.2 kg of alfalfa flour (AF). As the sows' live weight reached the 80 kg level, and AS rations the 1.5 kg level, the animals'

Card 1/2

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HUNGARY/Farm Animals. Swine. Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101176

appetite and AS consumption decreased. When AS rations were increased to 2.0 kg, the animals ate reluctantly. At the end of the fattening period, average weights per animal of the first group reached about 86 kg, and of the second group about 100 kg. Then both groups were fed AF. Appetite of the first group of animals improved, and they gained weight faster. However, they were still unable to reach the weight level of the second group animals.--
V.A. Kanzyuba

Card 2/2

HUNGARY / Cultivated Plants. Fodders. M-4

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25085

Author : Kurelec, V.
Inst : Not given
Title : The Time for the First Mowing of Alfalfa

Orig Pub: Magyar mezogazd., 1957, 12, No 9, 15 (Hung.)

Abstract: No abstract.

Card 1/1

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Soils and Fertilizers

The decomposition of crop residues from perennial grasses and the influence of nitrogen fertilizers on the yield of spring wheat in relation to the time of plowing under the sod. I. V. Gulyakin, P. M. Smirnov, K. M. Khallov, V. I. Kurdenok, and V. F. Kurochkina. *Izvest. Timiryazev. S-Kh. Akad.* No. 2(3), 11 58(1953).—It is shown that plowing under a sod crop in the early fall supplies more available N than plowing it under in late fall. In the latter case the N becomes assocd. with complex unhydrolyzable forms. Data are presented showing the increase in yield of spring wheat.

I. S. Joffe

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELENKO, V. I.

"A Second Crop of Winter Rye." Cand Agr Sci, Moscow Order of Lenin Agricultural Acad imeni K. A. Timiryazev, Moscow, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

USSR/Cultivated Plants - Grains.

KURELENOK, V. I.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15495

Author : V.I. Kurelenok

Inst :

Title : The Grain Crop Harvest in Differently Constructed Crop Rotations.
(Urozhay zernovykh kul'tur v sevooborotakh razlichnogo postroyeniya).

Orig Pub : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1956, vyp. 23, 112-118.

Abstract : At the Experimental Station for Field Cultivation of the Timiryazev Agricultural Academy a study was made in 1949 of 7-, 8-, and 9-field crop rotations of various constructions. The winter grain yield in the Central portion of the non-chernozem soil belt proved hardier and higher than the summer grain harvest. Averaging some 6 years the winter yielded a higher crop in comparison

Card 1/2

15

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

STEPANOV, V.N., doktor sel'skokhozyaystvennykh nauk, prof.; NASONOVA, K. Ye., nauchnyy sotrudnik; KURELENOK, V.I., nauchnyy sotrudnik

Productivity of crop rotations specializing in grain and potatoes in central regions of the non-Chernozem zone. Izv. TSKhA no.3: 49-64 '60. (MIRA 14:4)

(Rotation of crops)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KEDER-STAPANOVA, I.A.; KURELLA, G.A.

Changes in respiratory rhythm following local stimulation of inspiratory and expiratory centers [with summary in English]
Fiziol. zhur. 43 no.1:46-53 Ja '57. (MLRA 10:2)

1. Laboratoriya elektrofiziologii Klinicheskoy ordena Lenina bol'nitsy im. S. P. Botkina, Moskva.
(RESPIRATION, physiol.
changes of rhythm in stimulation of resp. centers)
(MEDULLA OBLONGATA, physiol.
eff. of stinulation of inspiratory & expiratory centers on resp. rhythm.)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

[redacted], I.A.; KURELLA, G.[redacted].

Effect of afferent impulses on the activity of the inspiratory and expiratory centers of the medulla oblongata. [with summary in English]. Fiziol.zhur. 43 no.8:721-728 Ag '57. (MLRA 10:9)

1. Laboratoriya elektrofiziologii Klinicheskoy ordena Lenina [illegible] im. S.P.Botkina, Moskva

(MEDULLA OBLONGATA, physiology,
eff. of afferent impulses on inspiratory & expiratory centers (Rus))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.

Method of manufacturing intracellular microelectrodes. Biofizika 3 no.2:243-245 '58. (MIRA 11:4)

1. Biologo-pochvennyy fakul'tet Moskovskogo ordena Lenina gosudarstvennogo universiteta im. M.V.Lomonosova.
(ELECTRODES) (ELECTROPHYSIOLOGY)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.

Method of investigating the dynamics of rest potentials in single-muscle fibers. Biofizika 3 no.5:614-619 '58 (MIRA 11:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(MUSCLE, physiology
rest potential dynamics, investigation on separate fibers (Rus))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.

Nature of the potential difference in a state of rest. Biofizika, 4 no.3:300-309 '59. (MIRA 12:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(MUSCLES, physiol.
rest potential, nature & variability (Rus))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.

Reversible depolarization of a single muscle fiber and pre-existence of the resting potential. Biofizika 4 no. 6:650-656 '59.
(MIRA 14:4)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(ELECTROPHYSIOLOGY) (MUSCLE)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

LYAN ZY-TYUN'; KURELLA, G.A.

Study of the resting potential of an isolated fiber of the skeletal muscle in the frog. Biofizika 7 no.6:700-710 '62.
(MIRA 17:1)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

VOROB'YEV, L.N.; KURELLA, G.A.; POPOV, G.A.

Intracellular pH of Nitella flexillis at rest and after excitation. Biofizika 6 no.5:582-589 '61. (MIRA 15:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

(ALGAE)
(HYDROGEN-ION CONCENTRATION)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.

Sorption theory of cellular permeability and the pre-existence of rest potentials. Biofizika 5 no.3:260-269 '60. (MIRA 13:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(ELECTROPHYSIOLOGY) (PROTOPLASM)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.; POPOV, G.A.

Determination of pH with the antimony microelectrode. Biofizika 5 no.3:373-375 '60. (MIRA 13:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(HYDROGEN-ION CONCENTRATION) (ELECTRODES)
(PHYSIOLOGICAL APPARATUS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.; LYAN ZY-TYUN'

Effect of changes in the Ca concentration in the medium on the resting potential of an isolated skeletal muscle fiber in frogs. Biofizika 10 no.1:72-81 '65.

(MIRA 18:5)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

[illegible], G.[illegible], LY.N ZY-TYUN'

Relation between the resting potential of an isolated single muscle fiber and the osmotic pressure of medium. Biofizika 9 no. 1:78-85 '64. (MIRA 17:2)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, G.A.

Physicochemical principles of the origin of resting potential difference. Trudy MOIP. Otd. biol. 9:74-82 '64.

(MIRA 18:1)

1. Kafedra biofiziki Moskovskogo universiteta.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

ANDRIANOV, V.K.; KURELLA, G.A.

Studies on the nature of the rest potential in Nitella cells. Report No.1: Relation of the magnitude of the rest potential to the concentration of potassium ions in the medium and to its osmotic pressure. Biofizika 8 no.4:457-460 '63. (MIRA 17:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

[illegible] hanges in the potential of Nitella cells under light and the resulting [illegible] synthesis

SOURCE: Biofizika, v. 10, no. 3, 1965, 531-533

TOPIC TAGS: algae, photosynthesis, cell resting potential, cell potential, Nitella

ABSTRACT: Experiments were conducted to determine the influence of light on the resting potential (RP) of Nitella flexilis algae and the resulting effect on photo- [illegible] Algae cells were subjected [illegible] after prelim- [illegible] changes in the RP [illegible] illumination of cells with light of different intensity were measured with "microelectrodes." The light [illegible] was a 20-w incandescent bulb with a set of neutral filters and a red filter. [illegible] intensity, but only up to a certain level (3000 lux). A typical curve of change [illegible] value is shown in the figure, together with [illegible] photosynthesis [illegible] the polarographic method [illegible] curves [illegible] conditions of pre- [illegible]

Card [illegible]

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liminary illumination and light intensity. The fact that the RP value changed during illumination of cells with red light (wavelength > 6[illegible] mu), which can be [illegible] only by chlorophyll and analogous pigments, indicates the participation of [illegible]

4034

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

AP5015653 ENCLOSURE 01

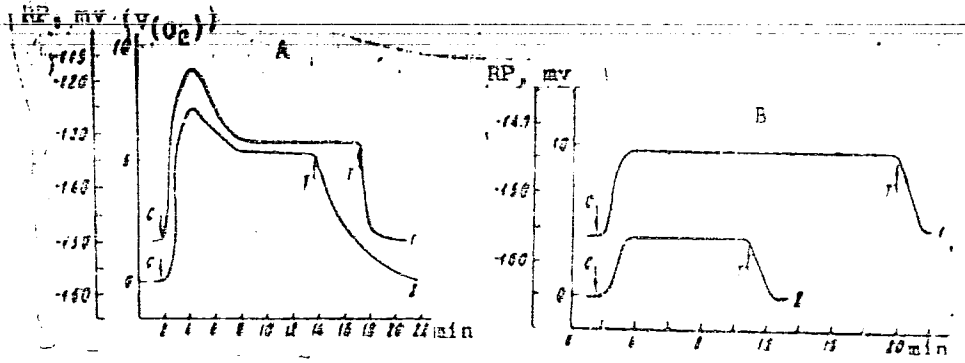

Fig. 1. Time curves of the change of the resting potential (RP) and the photosynthesis rate during illumination of cells with white light

Illumination: A - > 4000 lux, B - < 2000 lux; 1 - change of the RP value; 2 - change of the photosynthesis rate expressed by the rate oxygen (v_{O_2}) is given off in relative units; C - moment of switching on of light; T - moment of switching off of light.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

[illegible], [illegible] Ye.B.; [illegible], G.[illegible], [illegible]

[illegible] activity of potassium salts [illegible] cell [illegible] Nitella [illegible] Biofizika 10 no.3:[illegible] '65. ([illegible])

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta [illegible] Lomonosova. Submitted [illegible]

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

VOROB'YEV, L.N.; KURELLA, G.A.

Participation of cell membrane in the selective ion accumulation by the cells of Nitella mucronata. Biofizika 10 no.5:788-795 '65. (MIRA 18:10)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

ANTONOV, V.F.; KURELLA, G.A.; MELIKHOVEN, I.F.; [illegible]

Effect of sodium, potassium and chlorine ions on the difference of potentials between the medium, cytoplasm and nucleus of cells of the salivary gland in Drosophila larvae. Dokl. AN SSSR 161 no.3:691-693 Mr '65. (MIRA 18:4)

1. Moskovskiy gosudarstvennyy universitet. Submitted June 16, 1964.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

ANDRIANOV, V.K.; KURELLA, G.A.; LITVIN, F.F.

Light effect on the change in potential of Nitella cells and relation of this effect to photosynthesis. Biofizika 10 no.3:531-533 '65. (MIRA 18:11)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova. Submitted Aug 4, 1964.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

ANTONOV, V.F.; KURELLA, G.A.; YAGLOVA, L.G.

Distribution of Na^{22} between cytoplasm and nucleus in the giant neurons of Tritonia diomedia Bergh. Biofizika 10 no.6:1087-1088 '65. (MIRA 19:1)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova. Submitted March 20, 1964.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, M.V.

Analysis of motor organs in infectious nonspecific polyarthritis and its significance in the selection of a method of exercise therapy. Vop.kur., fizioter. i lech.fiz.kul't. no.4:48-56 O-D '55. (MIRA 12:12)

1. Iz otdela lechebnoy fizicheskoy kul'tury (zav. - prof. V.V. Gorinevskaya) Nauchno-issledovatel'skogo instituta fizioterpii Ministerstva zdravookhraneniya RSFSR (dir. - prof. A.N. Obrosov).

(ARTHRITIS, RHEUMATOID, therapy, exercise ther., selection of method)
(EXERCISE THERAPY, in various diseases, rheum. arthritis, selection of method)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELLA, M.V., nauchnyy sotrudnik

Methodical principles and trends in the use of physical culture therapy on children with poliomyelitis. Pediatriia no.3:31-36 Mr '57. (MIRA 10:10)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta fizioterapii Ministerstva zdravookhraneniya RSFSR (dir. - prof. A.N. Obraztsov)

(PHYSICAL THERAPY) (POLIOMYELITIS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELIA, T., red.

[Boundless horizons] Bezbrezhnye gorizonty. Moskva, Pravda, 1965. 62 p. (Biblioteka "Komsomol'skoi pravdy," no.8)
(MIRA 18:8)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURGLYUK, B. A., MIN. ENG.

Mine Timbering

Supporting work with slag blocks in mines. Gor. zhur. No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASS.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

1. KURELYUK, B. A.

2. USSR (600)

4. Mining Engineering

7. Continuous clearing work. Gor zhur No 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURELYUK, B.A.; KHAREBIN, M.P.

Using detonite 10A in underground operations at the Krasnogvardeysk Mine. Vzryv. delo no.55/12:121-125 '64. (MIRA 17:10)

1. Krasnoural'skiy medeplavil'nyy kombinat.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KUREMBINA, A.I., meditsinskaya sestra (Moskva)

Duodenal exploration. Med.sestra 15 no.10:19-20 O '56. (MIRA 9:12)
(MEDICAL INSTRUMENTS AND APPARATUS) (BILE)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KUREN', I.N., elektromonter (Sochi)

Redesigning of the starters of high-pressure mercury lamps.
Energetik 13 no.11:28 N '65. (MIRA 18:11)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

Kurkendash, R. S.

KOMAROV, M.S., doktor tekhnicheskikh nauk, professor; KURKENDASH, R.S., kandidat tekhnicheskikh nauk, dotsent.

An electric-drive vibrating saw. Vest.mash. 35 no.10:69-70 O '55. (Saws) (MLRA 9:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

PHASE I BOOK EXPLOITATION 1061

Kurendash, Rostislav Stefanovich

Konstruirovaniye pruzhin (Design of Springs) Kiyev, Mashgiz, 1958. 106 p. 11,000 copies printed. (Series: Biblioteka konstruktora)

Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Kiyevskaya oblastnaya organizatsiya

Reviewer: Radchik, A.S., Candidate of Technical Sciences, Docent; Ed.: Leuta, V.I., Engineer; Tech. Ed.: Rudenskiy, Ya.V. Chief Ed. (Ukrainian Division, Mashgiz): Serdyuk, V.K., Engineer.

PURPOSE: This book is intended for technicians and designers in the field of machine and instrument manufacture.

COVERAGE: The book deals with the classification, basic calculations and practical recommendations for design of helical, spiral, straight, curved and shaped springs for general use; current data on materials used for springs are also given. The name of Professor S.D. Ponomarev, Doctor of Technical Sciences, of the Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.Ye. Baumana (Moscow Higher Technical School imeni N.Ye. Baumana), is mentioned in connection with the development of

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spring design in the USSR. The author thanks Professor M.S. Komarov for his help in preparing the book. There are 9 references, of which 6 are Soviet, 1 English and 2 German.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

IVANOV, Mikhail Nikolayevich, prof., doktor tekhn.nauk; KOMAROV, Mikhail Stepanovich, prof., doktor tekhn.nauk; DOBROVOL'SKIY, V.A., prof., retsenzent; KURENDASH, R.S., dotsent, kand.tekhn. nauk, otv.red.; KOTLYAROV, Yu.L., red.; MALYAVKO, A.V., tekhn.red.

[Machine parts and hoisting and conveying machinery] Detali mashin i pod"emno-transportnye mashiny. L'vov, Izd-vo L'vovskogo univ., 1961. 587 p. (MIRA 15:2)

1. Moskovskoye vysshoye tekhnicheskoye uchilishche im. Baumana (for Ivanov). 2. L'vovskiy politekhnicheskiy institut (for Komarov). 3. Odesskiy politekhnicheskiy institut (for Dobrovol'skiy).
(Hoisting machinery) (Conveying machinery)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KOMAROV, Mikhail Stepanovich; KURENDASH, R.S., kand. tekhn.nauk, red. vypuska; FURER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Loads of industrial machinery]Nagruzki proizvodstvennykh mashin. Moskva, Mashgiz, 1962. 80 p. (MIRA 15:11)
(Machinery)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KOMAROV, Mikhail Stepanovich; KURENDASH, R.S., red. vypuska;
FUKER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Designing machinery] Kak konstruiruiut mashiny. Moskva,
Mashgiz, 1963. 73 p. (MIRA 16:7)
(Machinery—Design and construction)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

GLUSHCHENKO, I.P., kand. tekhn. nauk, dotsent; KURENDASH, K.S., kand. tekhn. nauk, dotsent; SOPIN, V.I., kand. tekhn. nauk

Book reviews and bibliography. Vest. mashinostr. 45 no.1: 85-88 Ja '65. (MIRA 18:3)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KUREMEV, M. M.

"Graphic aids in the study of chemistry in an institution of higher learning,"
Authors: G. P. DEMIDER'YEV, V. Ya. KUREMEV, M.M. PUSHKINA, and M.A. SHAPOCHNIKOVA,
Trudy Kazansk, Khim.-tekhnol. in-ta im. Kirova, Issue 13, 1949, p. 115-25

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENEV, S.I., dotsent, kandidat tekhnicheskikh nauk (Leningrad).

Calculating circuits in periodic breaking or impulse voltages. Elektrichestvo no.12:59-62 D '53. (MLRA 6:11)
(Electric circuits)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENEV, S.I., doktor tekhnicheskikh nauk, dotsent (Leningrad)

Representation of the magnetic field of circular currents by spheroid functions. Elektrichestvo no.6:9-10 Je '56. (MLRA 9:9)
(Magnetic fields)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENEV, S.I., doktor tekhnicheskikh nauk, dotsent; MEYEROVICH, E.A., doktor tekhnicheskikh nauk, professor; VOROBOV, R.A., doktor tekhnicheskikh nauk, dotsent; POPOMAREVA, O.F., kandidat tekhnicheskikh nauk, dotsent; IONKIN, P.A., kandidat tekhnicheskikh nauk, dotsent.

Methods for calculating nonlinear circuits. Elektrichestvo no.8:91-92 Ag '56. (MLRA 9:10)

1.Kafedra Voyenno-morskoy akademii imeni Krylova (for Kurenev). 2.Energeticheskiy institut imeni Krzhizhanovskogo AN SSSR (for Meyerovich). 3.Moskovskiy energeticheskiy institut imeni Molotova (for Ionkin).
(Electric circuits)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENEV, Sergey Ivanovich, doktor tekhn. nauk, dots.

Calculating the magnetic field, the static self-inductances, and the static mutual inductance of elliptic circuits. Izv. vys. ucheb. zav.; elektromekh. 1 no.3:30-34 '58. (MIRA 11:6)

1. Zaveduyuchshiy kafedroy teoreticheskikh osnov eletrotekhniki Leningradskogo elektrotekhnicheskogo instituta imeni V.I. Ul'yanova (Lenina).
(Electric circuits) (Magnetic fields) (Inductance)

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ALEKSEYEV, A.Ye.; ATABEKOV, G.I.; BRON, O.B.; GORODSKIY, D.A.; KOSTENKO, M.P.; KUBENEV, S.I.; NEYMAN, L.P.; POLIVANOV, K.M.; REYNGOL'DT, Yu.A.; ROMANOVSKIY, V.B.

Professor A.E. Kaplianskii; on his 60th birthday. Elektrichestvo no.6:92 Je '58. (MIRA 11:6)
(Kaplianskii, Aleksandr Evseevich, 1898-)

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83325

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E041/E455

6,4800

AUTHORS: Kurenev, S.I., Doctor of Technical Sciences, Professor and Volkov, M.G., Candidate of Technical Sciences

TITLE: Screening of an External Uniform Static Field by That of an Elliptical Cylinder

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1960, No.8, pp.3-7

TEXT: Previous treatments of the screening effect of enclosures have ignored the influence of shape. The magnetic case is dealt with here. Elliptical coordinates are used, related to cartesians as in Fig.1. The length of the cylinder is supposed long compared with its other dimensions. Laplace's equation is Eq.(2). The next general solutions are Eq.(3). For an external uniform field $\lambda = 1$ and the solution to Eq.(2) is Eq.(4). Two principal cases are then considered: magnetization along either x or y-axis. For the x-axis, the ferromagnetic layer splits the entire field into three regions and the separate solutions for scalar potential are given in Eq.(6). There are six constants of integration. Four of them are determined, Eq.(7), by the continuity of potential and normal component of the magnetic

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Screening of an External Uniform Static Field by That of an Elliptical Cylinder

induction vector in passing from one medium to another. The fifth condition is given, in the third region, by the fact that the potential is analytic at infinity. The sixth boundary condition is given by the fact that, in the first region, the potential tends to zero when the permeability of the magnetic shield tends to infinity. The screening coefficient, defined as the number by which the external field must be multiplied to give the internal field is $K_{\ni x}$ in Eq.(9). The corresponding formula for y-axis magnetization is $K_{\ni y}$ in Eq.(11). The difference formula of Eq.(12) shows the screening along the smaller axis to be less effective than that along the larger. Examination of the formulae for the coefficients shows that $0 \leqslant K_{\ni x} \leqslant 1$ while $0 \leqslant K_{\ni y} \leqslant 2$. The latter result rather surprisingly shows that for certain cylinders and values of permeability, the screen concentrates the field within it. The effect is indicated graphically in Fig.2. The field components within the enclosure, given by Eq.(14), are uniform. There are 2 figures and 1 Soviet reference.

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83325

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E041/E455

Screening of an External Uniform Static Field by That of an Elliptical Cylinder

ASSOCIATIONS: Leningradskiy elektrotekhnicheskiy institut (Leningrad Electrical Engineering Institute)
Voyennc-morskaya akademiya (Naval Academy)

SUBMITTED: May 25, 1960

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

85105

9.3100 (1031, 1144, 1159)

S/105/60/000/009/008/009/XX
B012/B058

AUTHORS: Kurenev, S. I., Doctor of Technical Sciences, Professor, and Pines, M. I., Candidate of Technical Sciences, Docent

TITLE: Determination of the Initial Conditions for Studying Transients in the Case of a Change of the Circuit Structure

PERIODICAL: Elektrichestvo, 1960, No. 9, pp. 45-49

TEXT: In this paper, a general method is given for determining the independent initial amperages in induction coils and the capacitor voltages in the case of transients, that is, for transients developing at a change of circuit structures. It is pointed out that the solution of the problem can be used for the calculation of transients by means of electronic computers. The problem under discussion was studied in the years 1953-1954 at the kafedra Teoreticheskikh osnov elektrotekhniki Leningradskogo elektrotekhnicheskogo instituta im. Ul'yanova (Lenina) (Chair of Theoretical Principles of Electrical Engineering at the Leningrad Electrotechnical Institute imeni Ul'yanov (Lenin)) under the direction of Professor A. V. Berendeyev. When investigating and calculating transients

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Determination of the Initial Conditions for Studying Transients in the Case of a Change of the Circuit Structure

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at the disconnection or connection of individual lines, a mathematical consideration of the changing contact resistance is not possible. It is neither possible to determine the duration of opening or closing of the contact. In connection with these difficulties the transient to be divided into two stages is briefly explained. It is shown that the calculation can be simplified on the basis of the following considerations: 1) The commutation time can be assumed as being very small compared to the time constant of the circuit and the a.c. cycle; 2) during commutation the sources feed practically no energy into the circuit; thus, only an internal re-distribution of the energy fields occurs; 3) the energy transformation takes place under observance of the theorem on the conservation of electricity and the theorem of electromagnetic induction. Formulas are derived, which determine the continuity of the changes in interlinkages in every closed circuit of an electric circuit the algebraic sum of interlinkages of all individual circuit sectors in the first moment after commutation is equal to the algebraic sum of interlinkages of the sectors of this circuit in the last moment before commutation. The digit sign of interlinkage in each sector is determined by the direction of the

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Determination of the Initial Conditions for Studying Transients in the Case of a Change of the Circuit Structure

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B012/B058

current in this sector. Next, formulas are derived, which determine the continuity of the charge variations: in the first moment after commutation the algebraic sum of capacitor charges in the lines leading to the circuit joint equals the algebraic sum of capacitor charges in the lines leading to this joint in the last moment before commutation. The digit sign of the charge is also determined by the direction of the current in this line. It is pointed out that the equations obtained for the interlinkages and charges do not contradict the commutation theorems but rather supplement them. In the case of a quick change of the circuit structure the equations given here make it possible to determine the initial amperages in coils and the initial capacitor voltages in the beginning of the second stage of the transient without having to investigate the first, short stage. The paper by M. A. Rozenblat (Ref. 1) is mentioned. There are 6 figures and 5 references: 3 Soviet, 1 US, and 1 Australian.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute imeni Ul'yanov (Lenin))

SUBMITTED: February 3, 1960

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KUREMEV, SERGEY IVANOVICH, doktor tekhn.nauk, prof.

Effect of the shielding envelope on the structure of the magnetic field. Izv. vys. ucheb. zav.; elektromekh. 4 no.5 :3-6 '61.
(MIRA 14:7)

1. Zaveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki Leningradskogo elektrotekhnicheskogo instituta.
(Magnetic fields) (Shielding (Electricity))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENEV, Sergey Ivanovich, doktor tekhn. nauk, prof.; VOLKOV, Mikhail Grigor'yevich, kand. tekhn. nauk, nauchnyy sotrudnik

Shielding of an external field by a hollow flattened ellipsoid. Izv. vys. ucheb. zav.; elektromekh. 6 no.9:1027-1031 '63. (MIRA 16:12)

1. Zeveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki Leningradskogo elektrotekhnicheskogo instituta (for Kurenev).
2. Voyenno-morskaya akademiya (for Volkov).

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KURBIEV, V.Ya.

Absorption of meter waves by some gases. Trudy KKHTI no.13:14-18 '48. (MIRA 12:12)

1.Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova, kafedra obshchey i neorganicheskoy khimii.
(Gases) (Spectrum, Molecular)

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KURE'EV, V.Ya.

Absorption of meter waves by some gases. Trudy KKHTI no.13:19-27 '48. (MIRA 12:12)

1.Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova, kafedra obshchey i neorganicheskoy khimii.
(Gases) (Spectrum, Molecular)

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DEZIDER'YEV, G.P.; KURENEV, V.Ya.; PUSHKINA, N.N.; SHAPOSHNIKOVA, N.A.

Visual aids for studying chemistry in institutions of higher learning. Trudy KKHTI no.13:118-125 '48. (MIRA 12:12)

1.Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova, kafedra neorganicheskoy khimii.
(Chemistry--Study and teaching) (Audio-visual aids)

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KURENEV, V. Ya.

CA

Paramagnetic resonance absorption in crystalline powders of some rare earth compounds. S. A. Altshuler, V. Ya. Kurenev, and S. G. Salikhov. *Doklady Akad. Nauk S.S.S.R.* 70, 201–4(1950); cf. preceding abstr.—The energy, Q, absorbed as a function of a const. magnetic field H, 200–3000 oersteds, superposed perpendicularly on a weak magnetic field oscillating at $\nu_1 = 6.75 \times 10^6$ hertzes, was detd. by the method of reaction on the generator. Curves with a max. were found with $Pr_2(SO_4)_3 \cdot 8H_2O$, $Pr(NO_3)_3 \cdot 6H_2O$, and anhyd. $Pr_2(SO_4)_3$. For the 1st 2 salts, the position of the max. is the same, $H = 1200$; dehydration shifts it to 700 oersteds. This confirms that the cubic symmetry of the cryst. elec. field in the hydrated sulfate and nitrate is due to H_2O mols., and that dehydration lowers the symmetry of that field. Likewise, the curves of $Nd_2(SO_4)_3 \cdot 8H_2O$ and $Nd(NO_3)_3 \cdot 6H_2O$ nearly coincide; however, the position of the common single max., 700 oersteds, cannot very well be taken to indicate cubic symmetry of the cryst. elec. field, as a calcn. of the transition probabilities between sublevels of Nd^{+++} in a cubic field predicts a series of lines of almost equal intensities. The same difficulty obtains with $Er(NO_3)_3 \cdot 5H_2O$, max. at $H = 600$. $Ce(CO_3)_3 \cdot 5H_2O$ has a max. at $H = 700$, as against $H = 1650$ calcd. for the main max. for cubic symmetry; however, if a rhombic field is assumed to be superposed on the main cubic field, that line cannot appear except at very high H, and only the actually observed max. can be expected in the given range of H. The curve of SmF_3O_3 has a max. at $H = 1400$, the theoretical interpretation of which is not clear. At $\nu_2 = 2.38 \times 10^6$ hertzes, the curves retain the same shape, only the maxima are shifted ν_1/ν_2 times to lower H. N. Thon

γ-Fe_2O_3 and high frequency. Friedrich Wagenknecht (Tech. Hochschule, Prag). *Naturwissenschaften* 36, 57 (1949).—Owing to its high elec. resistance (10^5 ohm cm.) and its semiconductor properties γ-Fe_2O_3, regular or spinel type, retains its ferromagnetism in a high-frequency a.c. field. From a limiting frequency (500 to 1000 kilohertzes) on, the real permeability and the magnetic-loss angle begin to change. Frequencies up to 3331 kilohertzes were used. The prepns. of highest permeability were obtained from magnetites by the Haber and Kaufmann method (*Z. Elektrochem.* 7, 733(1900)). Other means of prepn. gave lower permeability products.

B. J. C. van der Hoeven

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

The paramagnetic resonance absorption in the sulfates of cerium(III) and neodymium(III). V. Ya. Kuroney and S. G. Salikhov (Phys.-Tech. Inst., Kazan Branch Acad Sci. U.S.S.R.). *Zhur. Eksptl. i Teoret. Fiz.* 21, 804-8 (1951).—The paramagnetic resonance absorption has been detd. for the nonhydrated sulfates of Ce^{+++} and Nd^{+++} and for the sulfates contg. 8 mols. of water of hydration. The frequency of the magnetic field was 2.38×10^9 and 6.75×10^9 hertz. At room temp. all of the substances have a single max. except $Ce_2(SO_4)_3.8H_2O$. At the b.p. of liquid O, all of the substances exhibit 2 max. J. Rovtar Leach

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

CA KAZANEV, V YA.

Concept of Physical Chemistry V.2

Paramagnetic resonance absorption in metals. S. A. Al'tshuler, V. Ya. Kuzmev, and B. G. Salikhov (Phys.-Tech. Inst., Kazan Branch Acad. Sci. U.S.S.R.). *Doklady Akad. Nauk S.S.S.R.* **84**, 677–9(1952).—The effect was studied in metal powders, in some instances dild. with a diamagnetic powder, with a weak alternating magnetic field of a frequency of 2.38×10^8 hertzes, and a perpendicular static magnetic field H of from 20 to 1000 oersteds. All samples were strictly tested for absence of ferromagnetic impurities. The effect, with one peak of the curve of the paramagnetic absorption coeff. χ'' as a function of H, was found in 8 transition metals; the exptl. data (static at. susceptibility $10^6\chi_a$, $H_m = H$ corresponding to max. absorption δ = right-hand half width $= H_{\frac{1}{2}} - H_m$) are: Ti, 150, 70, 265; V, 280, 70, 270; Cr 100, 80, 210; Mn, 527, 90, 245; Nb, 121, 100, 245; La, 140, 80, 140; Ce, 200, 67, 150; W, 10, 60, 150. The g-factors, calcd. by $g\beta H_m = h\nu$, are ~ 2, with a scattering of 30%, which is well beyond the uncertainty of the measurements. Evidently, the zone approxn. is insufficient, and spin-orbital interaction is essential. The effect was not observed in Na, Mg, Al, Cu, Zn, As, Se, Ag, Cd, Sn, Hg, and Bi, possibly because of insufficient sensitivity.

N. Thon

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KURSHEVA, V. I. and USHAKOVA, L. I.

"Experiments With Professor Chernokhovostov's Method for Treating Children With Chronic Dysentery," Avtoreferaty Dokladov 19-y Nauchnoy Sessii Saratovskogo Gosudarstvennogo Meditsinskogo Instituta, Saratov, 1952, pp 235, 236.

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BUDUNOVA, V.A. (Saratov); SHOLPO, G.P. (Saratov); KURENEVA, V.I. (Saratov); MARKELOVA, Ye.F. (Saratov)

Treatment of chronic dysentery in specialized institutions for infants. Vop.okh.mat. i det. 4 no.2:62-63 Mr-Ap '59. (MIRA 12:5)

(DYSENTERY) (CHILDREN--HOSPITALS)

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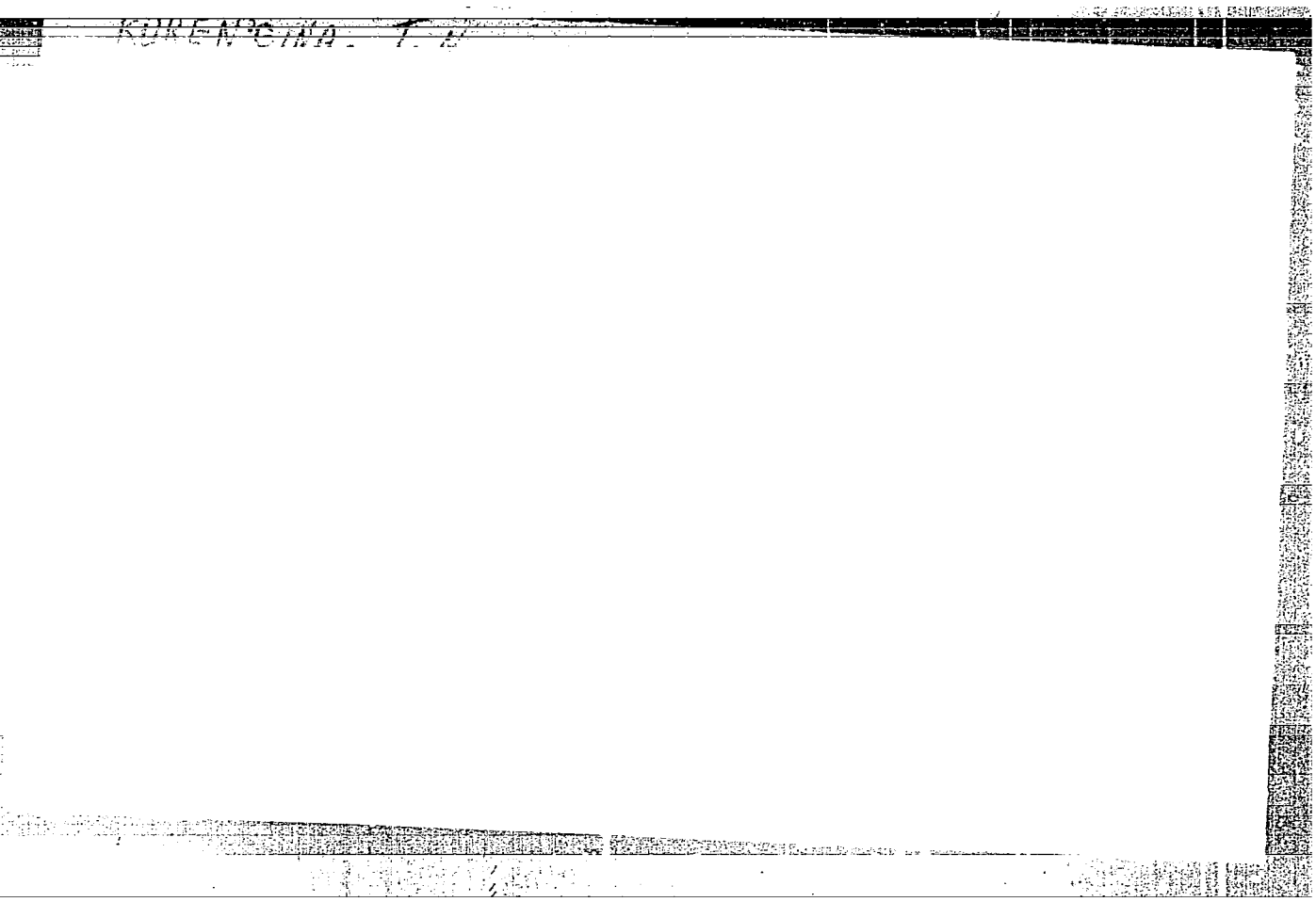

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Reaction of alcohol oxides of acetylene series with hydrogen sulfide. [illegible] and [illegible] (Leningrad [illegible]). *Zhur. Obshchei Khim.* 25, 1010 [illegible]; cf. C.A. 48, 8219. To EtMgBr from 12 g. Mg was added 1-ethynylcyclohexanol and after 1 hr. at 35-6° the mixt. treated with 15 g. $ClCH_2Ac$, decompn. with 50% AcOH and extn. with Et_2O gave 12 g. *1-chloro-2-methyl-4-(1-hydroxycyclohexyl)-3-butyn-2-ol*, b_1 129-30°, n_D^{20} 1.5210, d_{20} 1.1690; longer reaction and use of a more dil. soln. gave up to 70% yield. The product (30 g.) in Et_2O was treated with 50 g. powd. KOH, yielding after treatment with H_2O 80% *2-methyl-4-(1-hydroxycyclohexyl)-1,2-epoxy-3-butyne*, $b_{1.5}$ 101-2°, n_D^{20} 1.4965, d_{20} 1.0420. This (32 g.) with 20 g. $Ba(OH)_2$ and 150 ml. H_2O was treated with H_2S for about 30 min., yielding after neutralization with AcOH and extn. with Et_2O 91% *4-methyl-2-(1-hydroxycyclohexyl)thiophene*, b_2 124-6°, m. 52-3°; this steam distd. from 5% H_2SO_4 gave *4-methyl-2-(1-cyclohexenyl)thiophene*, b_2 105-6°, n_D^{20} 1.5795, d_{20} 1.0580. Grignard reaction, described above, but one employing 1-ethynylcyclopentanol, gave crude *1-chloro-2-methyl-4-(1-hydroxycyclopentyl)-3-butyn-2-ol*, b_1 90° with considerable decompn.; owing to this the crude product was used for treatment with KOH which gave 35% *2-methyl-4-(1-hydroxycyclopentyl)-1,2-epoxy-3-butyne*, b_1 95-8°, n_D^{20} 1.4940, d_{20} 1.0153, which with $Ba(OH)_2$ and H_2S as above gave 51% *4-methyl-2-(1-hydroxycyclopentyl)thiophene*, b_1 105-6°, n_D^{20} 1.5434, d_{20} 1.1010, which with 5% H_2SO_4 gave 73.1% *4-methyl-2-(1-cyclopentenyl)thiophene*, $b_{1.5}$ 76-7°, n_D^{20} 1.5705, d_{20} 1.0550. The latter is less stable than the six-membered analog and forms the *Hg deriv.*, decomp. 151°.

G. M. Kosolapoff

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SOV/20-129-5-29/64

AUTHORS: Tinyakova, Ye. I., Dolgoplosk, B. A., Corresponding Member, AS USSR, Zhuravleva, T. G., Kovalevskaya, R. N., Kuren'gina, T. N.

TITLE: Polymerization of Dienes and Olefins Under the Action of Cobalt Oxides and Diethyl Aluminum Halides, and a Study of the Structure of Polymers

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 5, pp 1068 - 1070 (USSR)

ABSTRACT: The authors supply data concerning the polymerization of dienes: butadiene, isoprene, pentadiene-1-3, and 2-3-dimethyl butadiene-1-3, as well as olefins: α-butene, styrene and α-methyl styrene in the presence of cobalt oxides (Co_2O_3-Co_3O_4, Ref 6), and diethyl aluminum chloride or diethyl aluminum bromide. The catalyst contained either 71-73% or 6.7% of Co. The latter content refers to cobalt oxide on aluminosilicate. Polymerization was carried out between 0 and 40° in different ratios between cobalt oxide and diethyl aluminum halide (concentration 2.5-2.5 of weight per

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cent referred to the monomer). Oxygen and humidity were kept off. In the polymers produced the content of 1-2-, 3-4- and 1-4-cis- and trans-members was determined by IR-spectroscopic measurement (spectra taken by E. V. Mikhaylova). The unsaturation was determined on the basis of the reaction with iodine chloride (Ref 7). The vitrification temperature was determined according to A. I. Marey (Ref 8). Table 1 gives the results along with the molecular weight. Under mentioned conditions butadiene is rapidly polymerized already at 0°. Cobalt oxide on aluminosilicate retards polymerization to some extent. The polymers obtained exhibit a degree of unsaturation which is 97.5-99% of theory. This points to the absence of secondary reactions with the double bonds of the polymer. Butadiene polymers have a fairly regular microstructure. On cobalt oxide without carrier the amount of the 1-2-members was 5-8%, the total amount of the 1-4-members was 95-92%, with the most part being in the 1-4-cis-position. By the use of cobalt oxide on

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aluminosilicate, the amount of the 1-2-members in the chain rises. Due to the high content of 1-4-members this polybutadiene has a low vitrification temperature (down to -115°). Isoprene is polymerized more slowly and at higher temperatures (at about 40°) as compared to butadiene. Here too, the process runs more slowly with the use of aluminosilicate as carrier. It may be observed from table 1 that both the microstructure of polyisoprene and the vitrification temperature are not changed appreciably by the concentration of the aluminum-organic compound nor by the ratio between cobalt oxide and aluminum diethyl halide. Fairly large amounts (17-18%) of isopropenyl side-groups increase the vitrification temperature of the polymer considerably. The total content of 1-4-members is about 80%; their major part is in the trans-position. A further strong retardation of polymerization takes place in the transition to higher dienes. α-butene is not quickly polymerized at room temperature and does form no more than a caoutchouc-like substance. Neither styrene nor α-methyl styrene are polymerized by the procedure de-

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scribed. Finally the authors state that no gaseous hydrocarbon products are formed in the interaction between cobalt oxides and an aluminum-organic compound at 0 to 80°. There are 1 table and 9 references, 5 of which are Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of Sciences, USSR)

SUBMITTED: September 5, 1959

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SOV/4982

International symposium on macromolecular chemistry, Moscow, 1960.

Mezhdunarodnyy simpozium po makromolekulyarnoy khimii SSSR, Moskva, 14-18 iyunya 1960 g.; doklady i avtoreferaty. Sektsiya I. (International Symposium on Macromolecular Chemistry Held in Moscow, June 14-18, 1960; Papers and Summaries. Section I.) [Moscow, Izd-vo AN SSSR, 1960] 346 p. 5,500 copies printed.

Sponsoring Agency: The International Union of Pure and Applied Chemistry, Commission on Macromolecular Chemistry

Tech. Ed.: T. V. Polyakova.

PURPOSE: This collection of articles is intended for chemists and researchers interested in macromolecular chemistry.

COVERAGE: This is Section I of a multivolume work containing scientific papers on macromolecular chemistry in Moscow. The material includes data on the synthesis and properties of polymers, and on the processes of polymerization, copolymerization, polycondensation, and polyrecombination. Each text is presented in full or summarized in French, English, and Russian. There are 47 papers, 28 of which were presented by Soviet, Rumanian, Hungarian, and Czechoslovakian scientists. No personalities are mentioned. References accompany individual articles.

Tinyakova, Ye. I., B. A. Dolgoplosk, T. G. Zhuravleva, R. N. Kovalevskaya, and T. N. Kuren'gina (USSR). The Synthesis of Cis- and Trans-Diene Polymers on Oxide Catalysts and a Study of Their Structure and Properties 13

Kefeli, T. Ya., G. V. Korolev, Yu. M. Filippovskaya (USSR). Synthesis and Polymerization of Esterified Polyacrylates 47

Bohdanecký, M., J. Mleziva, A. Šternschuss, and V. Zvonař (Czechoslovakia). The Structure of Hardened Unsaturated Polyesters 58

Zil'berman, Ye. N., A. Ye. Kulikova, and N. M. Teplyakov (USSR). New Method of Preparation of Polyesters and Their Oligomers 64

Bohdanecký, M., and A. Šternschuss (Czechoslovakia). Analysis of Cross-Linked Polyesters 72

Vansheydt, A. A., Ye. P. Mel'nikova, M. G. Krakovyak, L. V. Kukhareva, and G. A. Gladkovskiy (USSR). On the Synthesis and Properties of Crystalline Polymers of the Types of Poly-p-Xylylene and Polyphenylenemethyl 90

Matsoyan, S. G. (USSR). Cyclic Polymerization and Copolymerization of Divinylacetals 101

Mushina, Ye. A., A. I. Perel'man, A. V. Topchiyev, and B. A. Krentsel' (USSR). Synthesis of Crystalline Polyvinylcyclohexane 118

Arbuzova, I. A., and Ye. N. Rostovskiy (USSR). Polymerization of Polyfunctional Compounds 125

Solomon, O. F., M. Dimonie, K. Ambrush, and M. Tomescu (Rumania). Polymerization of Vinylcarbazol in the Presence of Butyllithium and Titanium Chloride Type Catalysts 131

Korshak, V. V., S. L. Sosin, and V. P. Alekseyeva (USSR). On the Preparing of the New Types of Linear Polymers by the Reaction of Polyrecombination 141

Nametkin, N. S., A. V. Topchiyev, and S. G. Durgar'yan (USSR). The Synthesis of Organosilicon Polymers on a Complex Catalyst $(C_2H_5)_3Al+TiCl_4$ 152

Kolesnikov, G. S., S. L. Davydova, and N. V. Klimentova (USSR). Germanium-Containing Polymers 156

Shostakovskiy, M. F., S. P. Kalinina, V. N. Kotrelev, D. A. Kochkin, G. I. Kuznetsova, L. V. Layne, A. I. Borisova, and V. V. Borisenko (USSR). Organotin Polymers 160

Koton, M. M., T. M. Kiseleva, and F. S. Florinskiy (USSR). The Effect of Chemical Structure on the Polymerization Activity of the Unsaturated Organometallic Compounds 167

Vol'kenshteyn, M. V. (USSR). Cooperative Processes in the Polycondensation of Biopolymers 202

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

Kuren'gina, T.N.

8204
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B003/B066

5.3200

AUTHORS: Dolgoplosk, B. A., Yerusalimskiy, B. L., Kuren'gina, T. N., Tinyakova, Ye. I.

TITLE: Reactions of Free Radicals in Solutions. 15th Report. Destruction Mechanism of Polymers by Free Radicals

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 2, pp. 311 - 316

TEXT: The authors investigated the destruction of polyisobutylene dissolved in ethyl benzene under the action of disulfides, benzoyl peroxide, isopropyl benzene-hydroperoxide, triazenes, dimethyl-diphenyl-tetrazene, iron- and cobalt naphthenate. The destructive effect of the individual agents may be seen from the diagrams in Figs. 1, 2, and 3. The following conclusions may be drawn from the investigations and pertinent papers by other authors: The destructive effect is most intense in such free radicals as are especially active in the reaction of H-separation. The destruction takes place in such a manner that first a H-atom is separated from the polymer chain and, secondly, the C-C bonds of the polymer radical

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

S/190/62/004/006/006/026
B101/B110

AUTHORS: Tinyakova, Ye. I., Dolgoplosk, B. A., Kuren'gina, T. N.

TITLE: Polymerization under the action of catalytic systems containing cobalt or tungsten carbonyls and diethyl aluminum halide

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 828-834

TEXT: The authors investigated the catalytic effect of the precipitate formed when $Co(CO)_4$ or $W(CO)_6$ dissolved in hydrocarbons are mixed with $Al(C_2H_5)_2Cl$. The following were polymerized with the cobalt complex (ratio carbonyl : R_2AlCl = 1 : 5): isoprene (20°C, 2.5 hr, polymer yield 31%), butadiene (50°C, 1.5 hr, yield 25%; 2.5 hr, yield 40%), styrene (20°C, 3 hr, 29.8%), α-methyl styrene (80°C, 42 hr, 47.2%), and α-butene (50°C, 46 hr, 7%). The investigation of the structure of butadiene polymerized with the cobalt or tungsten complexes gave the following results irrespectively of the temperature (40-50°C) and of the ratio

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Polymerization under the ...

carbonyl : R_2AlCl (1 : 2.5 to 1 : 18): 85-87% cis-1,4 bonds, 5-8% trans-1,4 bonds, and 5-7% 1,2 bonds. Isoprene polymerized with the cobalt complex (20-50°C) contained 61-62% cis-1,4 bonds, 22-23% trans-1,4 bonds, and 14-16% 3,4 bonds. An analysis of the precipitate formed from $Co(CO)_4$ and $Al(C_2H_5)_2Cl$ showed: ratio Co : Al between 1 : 1.25 and 1 : 3; ratio Al : Cl~1 : 1; ratio CO : Co~1; ratio C_2H_5 : Al~1 : 1. Since no gases are released during the formation of the precipitate, a reaction of CO with $Al(C_2H_5)_2Cl$ is assumed, similar to that occurring with organo-lithium and organomagnesium compounds. The absorption of CO by $Al(C_2H_5)_2Cl$ and the formation of sec-amyl alcohol were proved experimentally. The formula: $CoCO \cdot AlR_2Cl \cdot R_2C\langle^{OAl(R)Cl}_{Al(R)Cl}$ is suggested for the catalytic complex. There are 1 figure and 3 tables.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)

SUBMITTED: April 1, 1961

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

TINYAKOVA, Ye.I.; ZHURAVLEVA, T.G.; KUREN'GINA, T.N.; KIRIKOVA, N.S.; DOLGOPLOSK, B.A.

Cation activity of components of complex catalysts. Dokl.AN SSSR 144 no.3:592-595 My '62. (MIRA 15:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Dolgoplosk).
(Catalysts) (Polymerization) (Cations)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

ACC NR: AP7000336 SOURCE CODE: UR/0413/66/000/022/0094/0094

INVENTOR: Gorin, Yu. A.; Charakaya, K. N.; Rodina, E. I.; Kropachev, V. A.; Alferova, L. V.; Kuren'gina, T. N.

ORG: none

TITLE: Preparative method for elastic tetrahydrofuran copolymers. Class 39, No. 188670 [announced by the All-Union Sceintific Research Institute of Synthetic Rubber im. Akademician S. V. Lebedev (Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka); Institute of Macromolecular Compounds AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR])

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 94

TOPIC TAGS: elastic copolymer, bulk copolymerization, tetrahydrofuran copolymer, ... readily curable copolymer, copolymer, copolymerization

ABSTRACT: An Author Certificate has been issued for a method of preparing elastic copolymers of tetrahydrofuran with oxacyclobutane or organic oxides by bulk copolymerization in the presence of diethyl zinc hydrolyzates or of a system, consisting of aluminumalkyl hydrolyzates and oxacyclobutane derivatives. To produce vulcanization, the method provides for the copolymerization of the above-mentioned monomers in the presence of unsaturated epoxy compounds (e.g., alkyl-1-propanol or butadiene epoxide) as the third monomer. 5107

SUB CODE: 11, 07/ SUBM DATE: 05Jul65/ ATD PRESS:

Card 1/1 UDC: 678.83:66. .062.785

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

SHCHERBINA, V.V., redaktor, doktor geologo-mineralogicheskikh nauk; KURENKINA, I. Ye. [translator]

[Rare elements in ingeous rocks and minerals; collected articles] Redkie elementy v izvershennykh gornykh porodakh i mineralakh; sbornik statei. Perevod s angliiskogo i nemetskogo I.E.Kurenkinoi [i dr.] Moskva, Izd-vo inostrannoi lit-ry, 1952. 399 p. (MLRA 6:5)
(Rocks, Ingeous) (Mineralogy) (Earths, Rare)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGAYEV, I.V.; KAVUN, V.M.; KURENKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, S.Ya.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STRELETS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, D.B.; FINKEL'SHTEYN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu.. Prinimali uchastiye: NEVSKAYA, G.I.; FEDOSEYEV, V.A.; KASPILOVSKIY, Ya.B., ZERNOVA, K.V.. BARDIN, I.P., akademik, otv.red.; SATPAYEV, K.I., akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; STREYS, N.A., nauchnyy red.; BANKVITSER, A.L., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelezorudnye mestorozhdeniia TSentral'nogo Kazakhstana i puti ikh ispol'zovaniia. Otvetstvennyi red. I.P.Bardin. Moskva, 1960. 556 p. (MIRA 13:4)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Strelets.

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BOLDYREV, G.P.--(continued). Card 2.

3. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatskiy). 4. TSentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR (for Verk, Dyugayev, Kavun, Kurenko, Uzbekov). 5. Nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (Mikhanobr) (for Patkovskiy). 6. Gosudarstvennyy institut proyektirovaniya metallurg.zavodov (Gipromez) (for Boleslavskaya, Indenbom, Finkel'shteyn, Nevskaya, Fedoseyev, Karpilovskiy). 7. Mezhduvedomstvennaya postoyannaya komissiya po zheleza AN SSSR (for Shapiro, Zernova, Kalganov). 8. Gosplan SSSR (for Lapin).
(Kazakhstan--Iron ores)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENKOV, A., inzhener.

Vinyl plastic lining for chromium plating tanks. Grazhd.av.13 no.6: 20-21 Je '56. (Vinyl polymers) (MLRA 9:9)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENKOV, A. F.

Kurenkov, A. F. - "Building with prestressed reinforced concrete, processed for bending", Sbornik trudov Studench. nauch.-tekhn. o-va (Mosk. inzh.-stroit. in-t im. Kuybysheva), Moscow, 1949, p. 63-83.

SO: U-411, 17 July 53, (Letopis 'nykh Statey, No. 20, 1949).

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENKOV, A. F.

"Experimental Investigation of the Effect of the Temperature Factor on the Wok of the Shaft of Reinforced Concrete Smoke Stacks." Sub 20 Nov 51, Moscow Order of the Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

SOV/124-58-8-9279

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 132 (USSR)

AUTHOR: Kurenkov, A.F.

TITLE: The Effect Exerted by the Vertically Nonuniform Heating of a Section on the Development of Cracks in a Reinforced-concrete Element (Vliyaniye neravnomernogo po vysote secheniya nagreva na treshchinoobrazovaniye v zhelezobetonnom elemente)

PERIODICAL: Nauchn. zap. Poltavsk. in-t inzh. s.-kh. str-va, 1956, Nr 3, pp 186-193

ABSTRACT: The author investigates the cause of the development of cracks in rigidly restrained rectangular reinforced-concrete beams when they are subjected to uneven heating on an unreinforced face. A measurement is made of the bending moment needed to remove the compression strains on the fibers on that face of the beam not subjected to direct heating. From the magnitude of said bending moment it is possible to determine the compressive stresses that will act upon the fibers of a beam restrained from undergoing deformation when the beam is subjected to heating. Comparing these stresses with those arrived at theoretically for the case of unreinforced beams (in

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The Effect Exerted by the Vertically Nonuniform Heating (cont.)

accordance with the plane-section hypothesis), the author concludes that the results obtained in either case are virtually of the same order of magnitude. On the basis of this he deems it possible to determine the magnitude of those temperature differences at which the tensile stresses present near the axis of the heated elements reach the tensile-strength limit of the concrete, and he believes himself entitled to assert that the development of cracks is associated with the initial rise in temperature. The roundabout manner in which the experimental results are used tends to render the paper unconvincing.

V.A. Gastev

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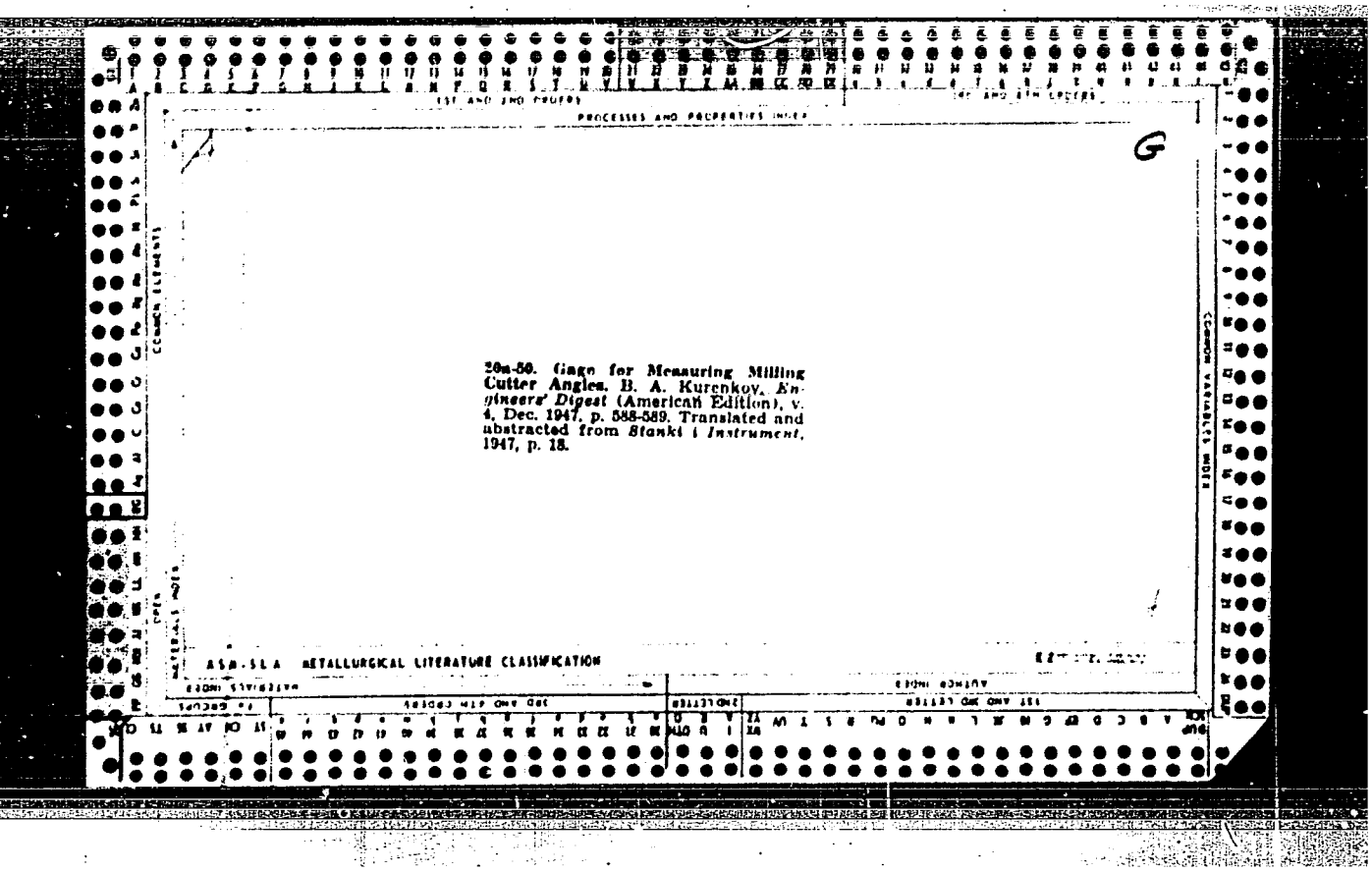

20a-50. Gage for Measuring Milling Cutter Angles. B. A. Kurenkov. *Engineers' Digest* (American Edition), v. 4, Dec. 1947, p. 588-589. Translated and abstracted from *Stanki i Instrument*, 1947, p. 18.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KUZENKOV, B.A.

Novye instrumenty. (Vestn. Mash., 1949, no. 6, p. 58-59)

New cutting tools.

DLC: TN4:V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress , 1953.

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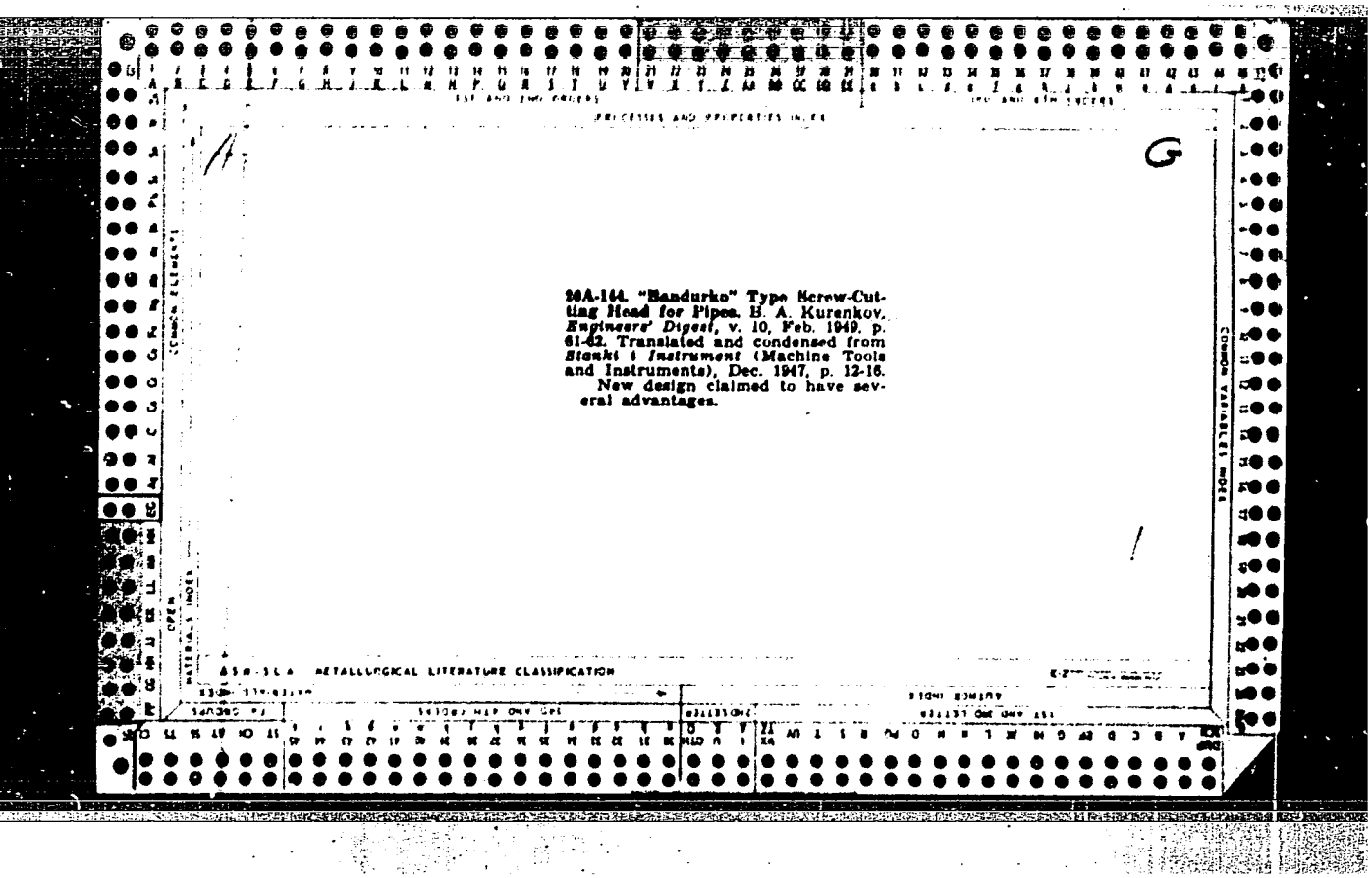

20A-144. **"Bandurko" Type Screw-Cutting Head for Pipes.** B. A. Kurenkov. *Engineers' Digest*, v. 10, Feb. 1949. p. 61-62. Translated and condensed from *Stanki i Instrument* (Machine Tools and Instruments), Dec. 1947, p. 12-16.

New design claimed to have several advantages.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURENKOV, B. A.

"1950 Achievements in Soviet Machine-Tool Building -- PartII", Stanki i Instrument, No. 9, 1951.

SO: W-25866, 14 Apr 1953.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710009-6

KURILOV, L. A.

Machine Tools

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